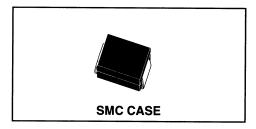
CMR3U-02
CMR3U-04
CMR3U-06
MEMI CMR3U-10
ULTRA FAST RECOVERY RECTIFIER
3.0 AMP, 100 THRU 1000 VOLTS

**CMR3U-01** 





### **FEATURES:**

- LOW COST
- SPECIAL SELECTIONS AVAILABLE
- HIGH RELIABILITY
- SUPERIOR LOT TO LOT CONSISTENCY
- GLASS PASSIVATED CHIP
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD

#### **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 3.0 Amp Surface Mount Silicon Ultra Fast Recovery Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 16mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

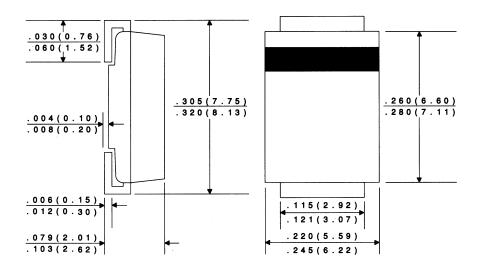
**MAXIMUM RATINGS:**  $(T_A=25^{\circ}C \text{ unless otherwise noted})$ 

	SYMBOL	CMR3U	CMR3U	CMR3U	CMR3U	CMR3U	J
		<u>-01</u>	<u>-02</u>	<u>-04</u>	<u>-06</u>	<u>-10</u>	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	200	400	600	1000	V
DC Blocking Voltage	٧R	100	200	400	600	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	70	140	280	420	700	V
Average Forward Current(T <sub>A</sub> =75°C)	lo Ó			3.0			Α
Peak Forward Surge Current (8.3ms)	<sup>I</sup> FSM			150			Α
Operating and Storage							
Junction Temperature	$T_J, T_stg$		-6	5 to +17	5		$^{\mathrm{o}}C$
Thermal Resistance	ΘJL			10			oC/W

# **ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS MIN	MAX	UNITS
<sup>I</sup> R	V <sub>R</sub> =Rated V <sub>RRM</sub>	5.0	μΑ
<sup>I</sup> R	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =100 <sup>o</sup> C	500	μΑ
٧F	I <sub>F</sub> =3.0A, (CMR3U-01, CMR3U-02)	1,00	· V
٧ <sub>F</sub>	I <sub>F</sub> =3.0A, (CMR3U-04)	1.25	٧
٧ <sub>F</sub>	I <sub>F</sub> =3.0A, (CMR3U-06)	1.40	٧
$V_{F}$	I <sub>F</sub> =3.0A, (CMR3U-10)	1.70	٧
t <sub>rr</sub>	I <sub>F</sub> =500mA, I <sub>R</sub> =1.0A, Irr=250mA (CMR3U-01, -02, -04)	50	ns
t <sub>rr</sub>	I <sub>F</sub> =500mA, I <sub>R</sub> =1.0A, Irr=250mA (CMR3U-06, -10)	100	ns

## All dimensions in inches (mm).



## **Marking Codes:**

DEVICE	MARKING CODE
CMR3U-01	CU301
CMR3U-02	CU302
CMR3U-04	CU304
CMR3U-06	CU306
CMR3U-10	CU310

